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REMARKS

Applicants thank the Examiner for the very thorough consideration given

the present application.

Claims 1-26 are now present in this application. Claims 1, 5, 9, 15, 19,

21, 23 and 25 are independent.

Reconsideration of this application is respectfully requested.

Drawings

Applicants have not received a Notice of Draftsperson's Patent Drawing

Review PTO-948 or other indication of whether or not the formal drawings have

been approved by the Draftsperson. Since no objection has been received,

Applicants assume that the drawings are acceptable and that no further action

is necessary. Confirmation thereof in the next Office Action is respectfully

requested.

Rejections under 35 U.S.C. §103

Claims 1-3, 5-6, and 9-26

Claims 1-3, 5-6, and 9-26 stand rejected under 35 U.S.C. § 103(a) as

being unpatentable over Yasui in view of Kurihara. This rejection is respectfully

traversed.

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A complete discussion of the Examiner's rejection is set forth in the Office

Action, and is not being repeated here.

Yasui discloses an audio interface 12, which includes an A/D comparator

and a D/A comparator (see Fig. 3 of Yasui). Audio interface 12 receives analog

audio input data from a source external to the audio receiving apparatus,

digitizes the input analog audio data, and then supplies the digital audio data to

an audio encoder/decoder 14 (see Yasui, Col.3, lines 33-36 and Fig. 3).

As a general definition, ATAPI (AT Attachment Packet Interface) is an

interface between a personal computer (PC) and attached CD-ROM drives and

tape backup drives. Most of today's PC computers use the standard Integrated

Drive Electronics (IDE) interface to address hard disk drives. ATAPI provides

the additional commands needed for controlling a CD-ROM player or tape

backup so that a PC can use the IDE interface and controllers to control these

relatively newer device types.

The Applicants have provided that using ATAPI protocol, a device

connected to a bus must conduct a preparation process before it transfers data

through the bus. After the preparation process is completed two devices

connected to the bus can transfer data therebetween. This is a slow and time-

consuming process.

When a PC is connected to a CD-ROM player, the PC specifies this

preparation process, and conventionally, the process must be performed before

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data transfer can take place. A great deal of time can be saved if the lengthy process could be avoided even though an *ATA command* has been issued (see Fig. 1), and the lengthy preparation process is *called for* (specified).

The Applicants' claimed invention provides for a bypass of the preparation process and transfer of record-formatted data, even though the preparation process is called for. The Examiner has admitted that Yasui does not request the preparation process. The Examiner relies of Kurihara to supply the deficiency of Yasui with regard to the preparation process. However, this deficiency is primarily related to the Examiner's rejections of dependent claims.

Particularly, the Examiner refers to Col.10, lines 6-9, which provides that CD-ROM unit 14 is connected to the parallel/PCI drive 125 via a parallel communication line such as ATAPI (AT Attachment Packet Interface). The Applicants submit that this portion describes a type of line used, but does not demand that a lengthy preparation process be performed before data transfer can take place.

The lengthy conventional preparation process is described in Fig. 1, as provided by the Applicants, and the process includes sending/receiving packet commands through the bus when a record command is received (see Fig. 1 and Applicants' claim 5). The Applicants' claimed invention provides for a bypass of this portion of the preparation process (even though it is requested) before transfer of data can begin. In examining the references provided by the

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Examiner, they all have the deficiency of specifying the lengthy preparation

process described in Fig. 1. Further, a similar preparation process is not

specified.

Therefore Kurihara, like Yasui, fails to teach or suggest a combination of

elements in an audio data receiving apparatus, including transferring, via a bus,

the record-formatted audio data to a disk recording/reproducing device without

conducting a preparation process for transferring data when a record request is

received from the disk recording/reproducing device, wherein the preparation

process is specified in a bus standard protocol for a personal computer, as

recited in independent claim 1, and similarly stated in independent claims 9 and

15.

Further, Kurihara, like Yasui, fails to teach or suggest a combination of

elements in an audio data recording apparatus, including a connector

sending/receiving signals through a bus in accordance with a bus protocol

compatible with a bus protocol specified for use in a personal computer; and a

controller controlling the connector to transmit a transfer start signal to a

counter part of the bus without sending/receiving packet commands through

the bus when a record command is received, as recited in independent claim 5.

With regard to independent claims 19, 21, 23 and 25, the methods and

apparatuses disclosed therein are just as clever and effective at saving time as

those described above. In this group of claims, an ATAPI protocol bus is

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specified as the bus to be used, and a first start signal signaling to start data transfer is sent. The conversion start signal (a second signal) however, signals to convert data into a format for transfer over the bus, through a connector other than the bus. Therefore, according to the use of these two signals, data is nevertheless, received through the bus. The methods and apparatuses recited in these claims also effectively bypasses the lengthy preparation processes, and therefore time is saved.

These features are neither disclosed, nor suggested by the prior art of record. Particularly, neither Kurihara, nor Yasui discloses or suggests the following combinations:

a method of interfacing digital audio data for a rewritable optical disk driver, including:

first sending a start signal, signaling to start a data transfer operation, through an AT attachment packet interface (ATAPI) protocol bus;

second sending a conversion start signal, signaling to convert data into a format for transfer over the bus, through a connection other than the bus; and

receiving data through the bus in accordance with the start signal and the conversion start signal,

as recited in independent claim 19,

an apparatus to interface digital audio data for a rewritable optical disk driver, including:

a sending interface sending a start signal, signaling to start a data transfer operation, through an AT attachment packet interface (ATAPI) protocol bus;

a controller sending a conversion start signal, signaling to convert data into a format for transfer over the bus, through a connection other than the bus; and Application No.: 09/617,049 Attorney Docket No. 2950-0164P

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the sending interface receiving data via the bus in accordance with the start signal and the conversion start signal,

as recited in independent claim 21,

a method of interfacing digital audio data for a rewritable optical disk driver, including:

first receiving a start signal, signaling to start a data transfer operation, through an AT attachment packet interface (ATAPI) protocol bus;

second receiving a conversion start signal, signaling to convert data into a format for transfer over the bus, through a connection other than the bus; and

transferring data through the bus in accordance with the start signal and the conversion start signal,

as recited in independent claim 23,

an apparatus to interface digital audio data for a rewritable optical disk driver, including:

a format converter receiving a conversion start signal, signaling to convert data into a format for transfer over the bus, through a connection other than the bus;

a transfer interface receiving a start signal, signaling to start a data transfer operation, through an AT attachment packet interface (ATAPI) protocol bus; and

transferring data received from the format converter through the bus in accordance with the start signal and the conversion start signal,

as recited in independent claim 25. Reconsideration and withdrawal of this art grounds of rejection is respectfully requested.

Claims 2, 3, 6, 10-14, 16-18, 20, 22 and 24 depend, either directly or indirectly, from independent claims 1, 5, 9, 15, 19, 21, 23 and 25, which are allowable for the reasons set forth above, and therefore claims 2, 3, 6, 10-14, 16-18, 20, 22 and 24 are allowable based on their dependence from claims 1, 5, 9,

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15, 19, 21, 23 and 25. Reconsideration and allowance thereof are respectfully

requested.

Claims 4, 7 and 8

Claims 4 stands rejected under 35 U.S.C. § 103(a) as being unpatentable

over the combination of Yasui and Kurihara as applied to claim 1, above and

further in view of Fujita et al. (Fujita), and claims 7 and 8 stand rejected under

35 U.S.C. § 103(a) as being unpatentable over the combination of Yasui and

Kurihara, as applied to claim 5, above, and further in view of Scheffler. These

rejections are respectfully traversed.

Yasui and Kurihara (argued above) fail to disclose or suggest the features

of independent claims 1 and 5. Neither Fujita, nor Scheffler can supply the

deficiencies. Claims 4, 7 and 8 depend, either directly or indirectly on

independent claims 1 and 5, which are allowable for the reasons set forth above,

. and therefore claims 4, 7 and 8 are allowable based on their dependence from

claims 1 and 5. Reconsideration and allowance thereof are respectfully

requested.

Conclusion

All of the stated grounds of rejection have been properly traversed,

accommodated, or rendered moot. Applicants therefore respectfully request that

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the Examiner reconsider all presently outstanding rejections and that they be

withdrawn. It is believed that a full and complete response has been made to the

outstanding Office Action, and as such, the present application is in condition

for allowance.

If the Examiner believes, for any reason, that personal communication will

expedite prosecution of this application, the Examiner is invited to telephone

Percy L. Square, Registration No. 51,084, at (703) 205-8034, in the Washington,

D.C. area.

Prompt and favorable consideration of this Amendment is respectfully

requested.

Pursuant to 37 C.F.R. §§ 1.17 and 1.136(a), Applicant(s) respectfully

petition(s) for a three (3) month extension of time for filing a reply in connection

with the present application, and the required fee of \$950.00 is attached

hereto.



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If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Respectfully submitted,

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